



FORM PTO-1449

SUPPLEMENTAL INFORMATION DISCLOSURE
STATEMENTATTY. DOCKET NO.
1823.0820004APPLICATION NO.
10/725,543

INVENTORS

McClurg *et al.*FILING DATE
December 3, 2003ART UNIT
2623**U.S. PATENT DOCUMENTS**

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|-----|-----------------|---------|--------|-------|-----------|-------------|
| | AA | | | | | | |
| | AB | | | | | | |
| | AC | | | | | | |
| | AD | | | | | | |
| | AE | | | | | | |
| A-T | AF9 | 6,021,007 | 02/2000 | Murtha | | | |
| A-T | AG9 | 6,373,969 B1 | 04/2002 | Adler | | | |
| | AH | | | | | | |
| | AI | | | | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|----|-----------------|------|---------|-------|-----------|-------------|
| | AJ | | | | | | Yes No |
| | AK | | | | | | Yes No |
| | AL | | | | | | Yes No |
| | AM | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|-----|----|---|---|
| | AN | | |
| | AO | | |
| A-T | AP | 1 | International Search Report from PCT Appl. No. PCT/US03/38536, filed December 4, 2003, 4 pages. |
| | AQ | | |
| | AR | | |

EXAMINER

Abolfazi Tabatabaei

DATE CONSIDERED

4/19/05

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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1823.0820004APPLICATION NO.
10/725,543INVENTORS
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December 3, 2003ART UNIT
2621

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|------------------|-----|-----------------|---------|-------------------------|-------|-----------|-------------|
| A-T | AA1 | 2,184,858 | 12/1939 | Goodman | | | |
| A-T | AB1 | 3,054,854 | 09/1962 | Neasham | | | |
| A-T | AC1 | 3,282,152 | 11/1966 | Myer | | | |
| A-T | AD1 | 3,333,502 | 08/1967 | Flanagan | | | |
| A-T | AE1 | 3,511,571 | 05/1970 | Ogle | | | |
| A-T | AF1 | 3,648,240 | 03/1972 | Jacoby <i>et al.</i> | | | |
| A-T | AG1 | 3,716,301 | 02/1973 | Caulfield <i>et al.</i> | | | |
| A-T | AH1 | 3,765,018 | 10/1973 | Heard <i>et al.</i> | | | |
| A-T | AI1 | 3,804,524 | 04/1974 | Jocoy <i>et al.</i> | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|------------------|-----|-------------------|---------|---------|-------|-----------|-------------|
| A-T | AJ1 | WO 96/17480 A2&A3 | 06/1996 | PCT | | | N/A |
| A-T | AK1 | JP 3-161884 | 07/1991 | JP | | | No |
| | AL1 | | | | | | Yes |
| | | | | | | | No |
| | AM1 | | | | | | Yes |
| | | | | | | | No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

| | | | |
|-----|----|---|---|
| A-T | AN | 1 | International Search Report from PCT Appl. No. PCT/US03/38644, filed December 5, 2003, 3 pages. |
| A-T | AO | 1 | English Abstract for Japanese Patent Publication No. 3-161884, published July 7, 1991, 1 page, from http://v3.espacenet.com/ . |
| | AP | 1 | |
| | AQ | 1 | |
| | AR | 1 | |

EXAMINER

Abolfazl Tahatabai

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| | INVENTORS McClurg <i>et al.</i> | |
| | FILING DATE December 3, 2003 | ART UNIT 2621 |
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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|-----|-----------------|---------|------------------------|-------|-----------|-------------|
| A-T | AA2 | 3,882,462 | 05/1975 | McMahon | | | |
| A-T | AB2 | 4,032,889 | 06/1977 | Nassimbene | | | |
| A-T | AC2 | 4,128,837 | 12/1978 | Page | | | |
| A-T | AD2 | 4,180,306 | 12/1979 | Duhrkoop <i>et al.</i> | | | |
| A-T | AE2 | 4,206,441 | 06/1980 | Kondo | | | |
| A-T | AF2 | 4,206,556 | 06/1980 | Sabo <i>et al.</i> | | | |
| A-T | AG2 | 4,357,597 | 11/1982 | Butler | | | |
| A-T | AH2 | 4,387,365 | 06/1983 | Berry <i>et al.</i> | | | |
| A-T | AI2 | 4,414,684 | 11/1983 | Blonder | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|-----|-----------------|------|---------|-------|-----------|-------------|
| | AJ2 | | | | | | Yes No |
| | AK2 | | | | | | Yes No |
| | AL2 | | | | | | Yes No |
| | AM2 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| AN | 2 | |
| AO | 2 | |
| AP | 2 | |
| AQ | 2 | |
| AR | 2 | |

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| EXAMINER <i>Abel Paz Tabatabaei</i> | DATE CONSIDERED <i>4/19/05</i> |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|-----|-----------------|---------|------------------------|-------|-----------|-------------|
| A-T | AA3 | 4,467,545 | 08/1984 | Shaw, Jr. | | | |
| A-T | AB3 | 4,578,793 | 03/1986 | Kanee <i>et al.</i> | | | |
| A-T | AC3 | 4,688,092 | 08/1987 | Kamel <i>et al.</i> | | | |
| A-T | AD3 | 4,701,960 | 10/1987 | Scott | | | |
| A-T | AE3 | 4,720,869 | 01/1988 | Wadia | | | |
| A-T | AF3 | 4,736,203 | 04/1988 | Sidlauskas | | | |
| A-T | AG3 | 4,736,436 | 04/1988 | Yasukawa <i>et al.</i> | | | |
| A-T | AH3 | 4,751,660 | 06/1988 | Hedley | | | |
| A-T | AI3 | 4,751,759 | 06/1988 | Zoell | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|-----|-----------------|------|---------|-------|-----------|-------------|
| | AJ3 | | | | | | Yes No |
| | AK3 | | | | | | Yes No |
| | AL3 | | | | | | Yes No |
| | AM3 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AN | 3 | |
| | AO | 3 | |
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EXAMINER

Abol Fazel Tabatabaie

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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|-----|-----------------|---------|------------------------|-------|-----------|-------------|
| A-T | AA4 | 4,774,516 | 09/1988 | Henri <i>et al.</i> | | | |
| A-T | AB4 | 4,790,025 | 12/1988 | Inoue <i>et al.</i> | | | |
| A-T | AC4 | 4,805,117 | 02/1989 | Fiore <i>et al.</i> | | | |
| A-T | AD4 | 4,821,118 | 04/1989 | Lafreniere | | | |
| A-T | AE4 | 5,140,469 | 08/1992 | Lamarre <i>et al.</i> | | | |
| A-T | AF4 | 5,225,924 | 07/1993 | Ogawa <i>et al.</i> | | | |
| A-T | AG4 | 5,249,370 | 10/1993 | Stanger <i>et al.</i> | | | |
| A-T | AH4 | 5,307,264 | 04/1994 | Waggener <i>et al.</i> | | | |
| | AI4 | 5,309,274 | 05/1994 | Akanabe | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|-----|-----------------|------|---------|-------|-----------|-------------|
| | AJ4 | | | | | | Yes No |
| | AK4 | | | | | | Yes No |
| | AL4 | | | | | | Yes No |
| | AM4 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AN | 4 | |
| | AO | 4 | |
| | AP | 4 | |
| | AQ | 4 | |
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U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|-----|-----------------|---------|---------------------|-------|-----------|-------------|
| A-T | AA5 | 5,313,306 | 05/1994 | Kuban <i>et al.</i> | | | |
| | AB5 | 5,367,399 | 11/1994 | Kramer | | | |
| | AC5 | 5,377,002 | 12/1994 | Malin <i>et al.</i> | | | |
| | AD5 | 5,440,428 | 08/1995 | Hegg <i>et al.</i> | | | |
| | AE5 | 5,452,135 | 09/1995 | Maki <i>et al.</i> | | | |
| | AF5 | 5,469,289 | 11/1995 | Iwao <i>et al.</i> | | | |
| | AG5 | 5,526,436 | 06/1996 | Sekiya | | | |
| | AH5 | 5,528,355 | 06/1996 | Maase <i>et al.</i> | | | |
| V | AI5 | 5,588,097 | 12/1996 | Ono <i>et al.</i> | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|-----|-----------------|------|---------|-------|-----------|-------------|
| | AJ5 | | | | | | Yes No |
| | AK5 | | | | | | Yes No |
| | AL5 | | | | | | Yes No |
| | AM5 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AN | 5 | |
| | AO | 5 | |
| | AP | 5 | |
| | AQ | 5 | |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|-----|-----------------|---------|--------------------------|-------|-----------|-------------|
| A-T | AA6 | 5,610,751 | 03/1997 | Sweeney <i>et al.</i> | | | |
| | AB6 | 5,638,461 | 06/1997 | Fridge | | | |
| | AC6 | 5,650,842 | 07/1997 | Maase <i>et al.</i> | | | |
| | AD6 | 5,677,782 | 10/1997 | Peng | | | |
| | AE6 | 5,699,186 | 12/1997 | Richard | | | |
| | AF6 | 5,777,751 | 07/1998 | Ward | | | |
| | AG6 | 5,796,426 | 08/1998 | Gullichsen <i>et al.</i> | | | |
| | AH6 | 5,798,923 | 08/1998 | Laskowski | | | |
| | AI6 | 5,937,102 | 08/1999 | Jin | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|-----|-----------------|------|---------|-------|-----------|-------------|
| | AJ6 | | | | | | Yes No |
| | AK6 | | | | | | Yes No |
| | AL6 | | | | | | Yes No |
| | AM6 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AN | 6 | |
| | AO | 6 | |
| | AP | 6 | |
| | AQ | 6 | |
| | AR | 6 | |

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|---------------------|-----|-----------------|---------|------------------------|-------|-----------|-------------|
| A-T | AA7 | 6,038,332 | 03/2000 | Fishbine <i>et al.</i> | | | |
| | AB7 | 6,041,134 | 03/2000 | Merjanian | | | |
| | AC7 | 6,046,867 | 04/2000 | Rana | | | |
| | AD7 | 6,175,407 B1 | 01/2001 | Sartor | | | |
| | AE7 | 6,198,429 B1 | 03/2001 | Fujikawa <i>et al.</i> | | | |
| | AF7 | 6,243,488 B1 | 06/2001 | Penna | | | |
| | AG7 | 6,341,028 B1 | 01/2002 | Bahuguna <i>et al.</i> | | | |
| | AH7 | 6,394,356 B1 | 05/2002 | Zagami | | | |
| ✓ | AI7 | 6,411,441 B1 | 06/2002 | Videen | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB-CLASS | TRANSLATION |
|---------------------|-----|-----------------|------|---------|-------|-----------|-------------|
| | AJ7 | | | | | | Yes No |
| | AK7 | | | | | | Yes No |
| | AL7 | | | | | | Yes No |
| | AM7 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AN | 7 | |
| | AO | 7 | |
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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|-----|-----------------|---------|-----------------------------|-------|-----------|-------------|
| A-T | AA8 | 6,415,064 B1 | 07/2002 | Oh | | | |
| | AB8 | 6,459,451 B2 | 10/2002 | Driscoll, Jr. <i>et al.</i> | | | |
| | AC8 | 6,466,686 B2 | 10/2002 | Senior | | | |
| | AD8 | 6,496,608 B1 | 12/2002 | Chui | | | |
| | AE8 | 6,616,065 B2 | 09/2003 | Martin | | | |
| | AF8 | 2002/0049714 A1 | 04/2002 | Yamazaki <i>et al.</i> | | | |
| | AG8 | 2002/0141620 A1 | 10/2002 | Monden | | | |
| | AH8 | 2003/0012417 A1 | 01/2003 | Hamid | | | |
| | AI8 | 2003/0099022 A1 | 05/2003 | Karin <i>et al.</i> | | | |

FOREIGN PATENT DOCUMENTS

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|---------------------|-----|-----------------|------|---------|-------|-----------|-------------|
| | AJ8 | | | | | | Yes No |
| | AK8 | | | | | | Yes No |
| | AL8 | | | | | | Yes No |
| | AM8 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AN | 8 | |
| | AO | 8 | |
| | AP | 8 | |
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| | AR | 8 | |

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| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB-CLASS | FILING DATE |
|---------------------|-----|-----------------|---------|-----------------------|-------|-----------|-------------|
| A-T | AA9 | 2004/0109245 A1 | 06/2004 | McClurg <i>et al.</i> | | | |
| | AB9 | 2004/0109589 A1 | 06/2004 | McClurg <i>et al.</i> | | | |
| | AC9 | 2004/0109591 A1 | 06/2004 | McClurg <i>et al.</i> | | | |
| | AD9 | 2004/0114785 A1 | 06/2004 | McClurg <i>et al.</i> | | | |
| | AE9 | 2004/0114786 A1 | 06/2004 | Cannon <i>et al.</i> | | | |
| | AF9 | | | | | | |
| | AG9 | | | | | | |
| | AH9 | | | | | | |
| | AI9 | | | | | | |

FOREIGN PATENT DOCUMENTS

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|---------------------|-----|-----------------|------|---------|-------|-----------|-------------|
| | AJ9 | | | | | | Yes No |
| | AK9 | | | | | | Yes No |
| | AL9 | | | | | | Yes No |
| | AM9 | | | | | | Yes No |

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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| | AN | 9 | |
| | AO | 9 | |
| | AP | 9 | |
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